

## Product datasheet for **SC322506**

### ARF1 (NM\_001658) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARF1 (NM_001658) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARF1
Synonyms:	PVNH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322506  
 GAGCCGCCATCTTGTGGGAGCAAAACCAACGCCTGGCTCGGAGCAGCAGCCTCTGAGGTG  
 TCCCTGGCCAGTGTCTTCCACCTGTCCACAAGCATGGGGAACATCTTCGCCAACCTCTT  
 CAAGGGCCTTTTTGGCAAAAAGAAATGCGCATCCTCATGGTGGGCTGGATGCTGCAGG  
 GAAGACCACGATCCTCTACAAGCTTAAGCTGGGTGAGATCGTGACCACCATCCCACCAT  
 AGGCTTCAACGTGGAAACCGTGGAGTACAAGAACATCAGCTTCACTGTGTGGGACGTGGG  
 TGGCCAGGACAAGATCCGGCCCCGTGTGGCGCCACTACTTCCAGAACACACAAGGCCTGAT  
 CTTCTGGTGGACAGCAATGACAGAGAGCGTGTGAACGAGGCCCGTGAGGAGCTCATGAG  
 GATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTCCTGGTGTTCGCCAACAAGCAGGA  
 CCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGCTGGGGCTGCACTACTACG  
 CCACAGGAACTGGTACATTACAGCCACCTGCGCCACCAGCGGCGACGGGCTCTATGAAGG  
 ACTGGACTGGCTGCAATCAGCTCCGGAACCAGAAGTGAACGCGACCCCCCTCCCTCTC  
 ACTCCTCTTGCCTCTGCTTACTCTCATGTGGCAAACGTGCGGCTCGTGGTGTGAGTGC  
 CAGAAGCTGCCTCCGTGGTTTGGTCACCGTGTGCATCGCACCGTGTGAAATGTGGCAG  
 ACGCAGCTGCGGCCAGGCTTTTTATTTAATGTAATAGTTTTTGTTCATGAGGCAG  
 TTTCTGGTACTCCTATGCAATATTACTCAGCTTTTTTTATTGTA AAAAAGAAAAATCAACT  
 CACTGTTCAAGTGTGAGAGGGGATGTAGGCCCATGGGCACCTGGCCTCCAGGAGTCGCTG  
 TGTGGGAGAGCCGGCCACGCCCTTGGCTTTAGAGCTGTGTTGAAATCCATTTTGGTGGT  
 TGGTTTTTAACCCAAACTCAGTGCAATTTTTAAATAGTTAAGAAATCCAAGTCGAGAACA  
 CTTGAACACACAGAAGGGAGACCCCGCCTAGCATAGATTTGCAGTTACGGCCTGGATGCC  
 AGTCGCCAGCCCAGCTGTTCCCTCGGGAACATGAGGTGGTGGTGGCGCAGCAGACTGCG  
 ATCAATTCTGCATGGTCACAGTAGAGATCCCGCAACTCGCTTGTCTTGGTCCACCTG  
 CATTCCATAGCCATGTGCTTGTCCCTGTGCTCCACGGTCCAGGGGCCAGGCTGGGAG  
 CCCACAGCCACCCCACTATGCCGAGGCCGCCCTACCCACCTTCAGGCAGCCTATGGGAC  
 GCAGGGCCCCATCTGTCCCTCGGTCGCCGTGTGGCCAGAGTGGGTCCGTCGTCCCCAACA  
 CTCGTGCTCGCTCAGACACTTTGGCAGGATGTCTGGGGCCTCACCAGCAGGAGCGCGTGC  
 AAGCCGGGAGGCGGTCCACCTAGACCCACAGCCCTCGGGAGCACCCACCTCTGTGTG  
 TGATGTAGCTTTCTCCCTCAGCCTGCAAGGGTCCGATTTGCCATCGAAAAAGACAACC  
 TCTACTTTTTTCTTTGTATTTTGATAAACACTGAAGCTGGAGCTGTTAAATTTATCTTG  
 GGGAAACCTCAGAACTGGTCTATTTGGTGTGCGTGAACCTTCTACTGCTTTCAATACACG  
 ATTAGTAATCAACTGTTTTGTATACTTGTTCAGTTTTTCATTTGACAAACAAGCACTG  
 TAATTATAGCTATTAGAATAAAATCTTAACTATTA AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001658

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001658.3](#), [NP\\_001649.1](#)

**RefSeq Size:** 1901 bp

**RefSeq ORF:** 546 bp

**Locus ID:** 375

**UniProt ID:** [P84077](#)

**Cytogenetics:** 1q42.13

**Domains:** RAB, SAR, ARF, arf

**Protein Pathways:** Vibrio cholerae infection

**Gene Summary:** ADP-ribosylation factor 1 (ARF1) is a member of the human ARF gene family. The family members encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking as activators of phospholipase D. The gene products, including 6 ARF proteins and 11 ARF-like proteins, constitute a family of the RAS superfamily. The ARF proteins are categorized as class I (ARF1, ARF2 and ARF3), class II (ARF4 and ARF5) and class III (ARF6), and members of each class share a common gene organization. The ARF1 protein is localized to the Golgi apparatus and has a central role in intra-Golgi transport. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (4) has an alternate and shorter 5' UTR, as compared to variant 1.